

# **Upholding Quality System Improvement through the Principle of Statistical Quality Control**

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**Abstract:** It is not enough to focus on the productivity of the production but most especially on the quality perceived by the customers who are the users of the product. This study provided the principle of Statistical Quality Control (SQC) in order to improve and stabilize the production.

The researcher conducted the study in a manufacturer and distributor of bottled drinking-water products in local and international markets. The study focused on the size of 350 milliliters (mL) and 500 milliliters (mL) of mineral bottles and concentrated in the process of producing empty bottles.

Upon conducting the study, the researcher was able to come up with the major problem which was the uneven increased number of defects in preforms and empty bottles due to machine failure and the absence of quality system that strictly checks the quality of empty bottles. With this, the researcher suggested some possible solutions that may help the company to minimize the number of defects as well as to assure the quality of every empty bottle that the company produced.

**Keywords:** *Bottled Drinking-Water; Defects; Preforms; Quality; Quality System; Statistical Quality Control*